ABSTRACT

A method and apparatus for supplying liquid anhydrous ammonia to a pump or other flow control system whereby a separation chamber removes vapor generated by friction in the flow path from a storage tank containing saturated anhydrous ammonia. Additionally, liquid ammonia in the separation chamber creates a static head pressure. The difference in height between the inlet near the top of the separation chamber and the outlet at the bottom causes the static head pressure. The static head assures pure liquid at the bottom since absolute pressure exceeds saturation pressure. As a result, the feed stream to the pump or other flow control system is free of ammonia vapor.